

CLAIMS:

1. A multi-database system in which a plurality of database apparatuses each storing data, a multi-database processing apparatus for performing an integration processing to the data stored in said plurality of database apparatuses, and a user processing apparatus for receiving the integration-processed data from said multi-database processing apparatus are connected mutually through a network, wherein

each of said plurality of database apparatuses includes:

means for storing dispersed data; and

means for storing a dispersed-data access privilege, said dispersed-data access privilege being an access privilege to the dispersed data, and making connection with dispersed-data identification information for identifying a user or user processing apparatus permitted to access the dispersed data and a dispersed-data operating right indicative of operation contents by which the user or the user processing apparatus indicated by said dispersed-data identification information are permitted to operate the dispersed data, and

said multi-database processing apparatus includes:

means for receiving a plurality of the dispersed data from said plurality of database

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apparatuses;

means for integrating said plurality of received dispersed data to generate integrated data;

means for storing an integrated-data access privilege, said integrated-data access privilege being an access privilege to the integrated data, and making connection with integrated-data identification information for identifying a user or user processing apparatus permitted to access the integrated data and an integrated-data operating right indicative of operation contents by which the user or user processing apparatus indicated by said integrated-data identification information are permitted to operate the integrated data;

means for receiving an access request, said access request being an access request for operating the integrated data from said user processing apparatus, and containing user identification information for identifying a user of the user processing apparatus concerned or the user processing apparatus concerned; and

means for controlling operation indicated by said access request and respectively applied to said plurality of dispersed data constituting the integrated data by using said dispersed-data access privilege and said integrated-data access privilege.

2. A multi-database system according to claim 1, wherein the operation contents indicated by said

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dispersed-data operating rights includes at least one of insert, select, change, and copy of the dispersed data.

3. A multi-database system according to claim 2, wherein the change of the dispersed data includes at least one of update, substitute, and delete of the dispersed data and addition of data to the dispersed data.

4. A multi-database system according to claim 1, wherein the operation contents indicated by said integrated-data operating rights includes at least one of insert, select, change, and copy of the integrated data.

5. A multi-database system according to claim 4, wherein the change of the integrated data includes at least one of update, substitute, and delete of the integrated data and addition of data to the integrated data.

6. A multi-database system according to claim 1, wherein when operation indicated by said access request is operation applied to dispersed data which the user or user processing apparatus identified by said user identification information is inhibited from operating, said controlling means limits the operation indicated by said access request.

7. A multi-database system according to claim 6, wherein when the operation indicated by said access request is operation which the user or user processing

apparatus identified by said user identification information is either inhibited from or permitted for operating by said integrated-data access privileges, said controlling means limits the operation indicated by said access request.

8. A multi-database system according to claim 6, wherein

the limit operation by said controlling means is to inhibit the operation; and

said controlling means controls permission/inhibition of the operation indicated by said access requests and respectively applied to said plurality of dispersed data constituting the integrated data, by using said dispersed-data access privilege and said integrated-data access privilege.

9. A multi-database processing system connected to a plurality of database apparatuses each storing data, and a plurality of user apparatuses, and for integrating the data stored in said plurality of database apparatuses, comprising:

means for receiving a plurality of dispersed data from said plurality of database apparatuses;

means for receiving a dispersed-data access privilege from each of said plurality of database apparatuses, said dispersed-data access privilege being an access privilege to the dispersed data, and making connection with dispersed-data identification information for identifying a user or user processing

apparatus permitted to access the dispersed data and a dispersed-data operating right indicative of operation contents by which the user or user processing apparatus indicated by said dispersed-data identification information are permitted to operate the dispersed data;

means for performing an integration processing to a plurality of received dispersed data to generate integrated data;

means for storing an integrated-data access privilege, said integrated-data access privilege making the connection with integrated-data identification information for identifying a user or user processing apparatus permitted to access the integrated data and an integrated-data operating right indicative of operation contents by which the user or user processing apparatus indicated by said integrated-data identification information are permitted to operate the integrated data;

means for receiving an access request from said user processing apparatus, said access request being an access request for operating said integrated data, and containing user identification information for identifying a user of the user processing apparatus concerned or the user processing apparatus concerned; and

means for controlling operation indicated by said access request and respectively applied to said

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plurality of dispersed data constituting the integrated data, by using said dispersed-data access privilege and said integrated-data access privilege.

10. A multi-database processing system according to claim 9, wherein the operation contents indicated by said dispersed-data operating right includes at least one of insert, select, change, and copy of the dispersed data.

11. A multi-database processing system according to claim 10, wherein the change of the dispersed data includes at least one of update, substitute, and delete of the dispersed data and addition of data to the dispersed data.

12. A multi-database processing system according to claim 9, wherein the operation contents indicated by said integrated-data operating right includes at least one of insert, select, change, and copy of the integrated data.

13. A multi-database processing system according to claim 12, wherein the change of the integrated data includes at least one of update, substitute, and delete of the integrated data and addition of data to the dispersed data.

14. A multi-database processing system according to claim 9, wherein when operation indicated by said access request is operation applied to dispersed data which the user or user processing apparatus indicated by said user identification information is inhibited

from operating by said dispersed-data access privilege, said controlling means limits the operation indicated by said access request.

15. A multi-database processing system according to claim 14, wherein the limit operation by said controlling means is to inhibit the operation.

16. A multi-database processing system according to claim 14, wherein when the operation indicated by said access request is operation which the user or user processing apparatus indicated by said user identification information is either inhibited from or permitted for operating by said integrated-data access privilege, said controlling means limits the operation indicated by said access request.

17. A multi-database processing system according claim 16, wherein the limit operation by said controlling means is to inhibit the operation.

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